

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Under 37 CFR 1.97(b) or 1.97(c))

Docket No.

14919

In Re Application Of: **MARVEL K. THORNER, et al.**

Serial No.

09/967,206

Filing Date

September 28, 2001

Examiner

unassigned

Group Art Unit

unassigned

Title: **BROADENED-SPECULAR REFLECTION AND LINEAR SUBSPACES
FOR OBJECT RECOGNITION**

Address to:

Assistant Commissioner for Patents

Washington, D.C. 20231

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
2. a Notice of Allowance under 37 CFR 1.311,

whichever occurs first.

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

OR

- ☐ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Under 37 CFR 1.97(b) or 1.97(c)

Docket No.

14919

In Re Application Of: KARVEL K. THORNER, et al.

Serial No.

09/967,206

Filing Date

September 28, 2001

Examiner

unassigned

Group Art Unit

unassigned

Title: **BROADENED-SPECULAR REFLECTION AND LINEAR SUBSPACES
FOR OBJECT RECOGNITION**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. **19-1013 SSMP** as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
- ☐ Credit any overpayment.
- ☒ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax No. _____) on _____ (Date)

Signature

Typed or Printed Name of Person Signing Certificate

Certificate of Mailing by First Class Mail

I certify that this document and fee is being deposited on Dec. 19, 2001 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature of Person Mailing Correspondence

Janet Grossman

Typed or Printed Name of Person Mailing Correspondence

*This certificate may only be used if paying by deposit account.

Signature

Paul J. Esatto, Jr.
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Dated: December 19, 2001

CC:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENTS

Applicant: Karvel K. Thornber, et al.

Docket: 14919

Serial No: 09/967,206

Art Unit: unassigned

Filed: September 28, 2001

Dated: December 19, 2001

**For: BROADENED-SPECULAR REFLECTION
AND LINEAR SUBSPACES FOR OBJECT
RECOGNITION**

Assistant Commissioner for Patents
United States Patent and Trademark Office
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:


In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. Brelstaff et al., "Detecting Specular Reflections Using Lambertian Constraints," *International Conference on Computer Vision*, pages 297-302, 1988.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231 on December 19, 2001

Dated: December 19, 2001


Janet Grossman

2. Coleman et al., "Obtaining 3-Dimensional Shape of Textured and Specular Surfaces Using Four-Source Photometry," *Physics-Based Vision Principles and Practice, Shape Recovery*, pages 180-199, 1992.
3. Ramamoorthi et al., "On the Relationship Between Radiance and Irradiance: Determining the Illumination From Images of a Convex Lambertian Object," to appear in *Journal of the Optical Society of America A*.
4. Cabral et al., "Bidirectional Reflection Functions from Surface Bump Maps," *Computer Graphics*, Vol. 21, No. 4, pages 273-281, 1987.
5. Hallinan, "A Low-Dimensional Representation of Human Faces for Arbitrary Lighting Conditions," *IEEE Conf. On Computer Vision and Pattern Recognition*, pages 995-999, 1999.
6. Marschner et al., "Image-Based BRDF Measurement Including Human Skin," *In Proceedings of 10th Eurographics Workshop on Rendering*, pages 139-152, 1999.
7. Yuille et al., "Determining Generative Models of Objects Under Varying Illumination: Shape and Albedo from Multiple Images Using SVD and Integrability," *International Journal of Computer Vision*, pages 1-35, 1999.
8. Ramamoorthi et al., "A Signal-Processing Framework for Inverse Rendering," *Computer Graphics Proceedings, Annual Conference Series*, pages 117-128, 2001.
9. R. Basri, et al., "Lambertian Reflectance and Linear Subspaces" *NEC Research Institute, Inc. Technical Report*, dated August 16, 2000, pages 1-33.
10. R. Basri, et al., "Lambertian Reflectance and Linear Subspaces" *NEC Research Institute, Inc. Technical Report*, dated December 13, 2000, pages 1-27.

Applicants are submitting a copy of the above-cited references. The relevance of reference numbers 1-3, has been described in the specification.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no statement or fee is required.

Respectfully submitted,



Paul J. Esatto, Jr.

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